

07-03-00

A

06/30/00  
1c844 U.S. PTO

Please type a plus sign (+) inside this box → ☐

PTO/SB/05 (4/98)  
Approved for use through 09/30/2000. OMB 0651-0032  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>UTILITY PATENT APPLICATION TRANSMITTAL</b> <small>(Only for new nonprovisional applications under 37 C.F.R. § 1.53(b))</small>	<b>Attorney Docket No.</b>	PD-00W014
	<b>First Inventor or Application Identifier</b>	Allison
	<b>Title</b>	Multi-Bit Phase Shifters Using MEM RF Switch
	<b>Express Mail Label No.</b>	EK444529177US

<b>APPLICATION ELEMENTS</b> <small>See MPEP chapter 600 concerning utility patent application contents.</small>	<b>ADDRESS TO:</b> Assistant Commissioner for Patents Box Patent Application Washington, DC 20231
1. <input checked="" type="checkbox"/> * Fee Transmittal Form (e.g., PTO/SB/17) <small>(Submit an original and a duplicate for fee processing)</small>	5. <input type="checkbox"/> Microfiche Computer Program (Appendix)
2. <input checked="" type="checkbox"/> Specification [Total Pages 32] <small>(preferred arrangement set forth below)</small> <ul style="list-style-type: none"><li>- Descriptive title of the Invention</li><li>- Cross References to Related Applications</li><li>- Statement Regarding Fed sponsored R &amp; D</li><li>- Reference to Microfiche Appendix</li><li>- Background of the Invention</li><li>- Brief Summary of the Invention</li><li>- Brief Description of the Drawings (if filed)</li><li>- Detailed Description</li><li>- Claim(s)</li><li>- Abstract of the Disclosure</li></ul>	6. <input type="checkbox"/> Nucleotide and/or Amino Acid Sequence Submission <small>(if applicable, all necessary)</small> <ul style="list-style-type: none"><li>a. <input type="checkbox"/> Computer Readable Copy</li><li>b. <input type="checkbox"/> Paper Copy (identical to computer copy)</li><li>c. <input type="checkbox"/> Statement verifying identity of above copies</li></ul>
3. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [Total Sheets 11]	<b>ACCOMPANYING APPLICATION PARTS</b>
4. Oath or Declaration [Total Pages 3] <ul style="list-style-type: none"><li>a. <input checked="" type="checkbox"/> Newly executed (original or copy)</li><li>b. <input type="checkbox"/> Copy from a prior application (37 C.F.R. § 1.63(d)) <small>(for continuation/divisional with Box 16 completed)</small><ul style="list-style-type: none"><li>i. <input type="checkbox"/> <b>DELETION OF INVENTOR(S)</b> Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).</li></ul></li></ul>	
<small>* NOTE FOR ITEMS 1 &amp; 13: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).</small>	

16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment:  
☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No: \_\_\_\_\_  
Prior application information: Examiner \_\_\_\_\_ Group / Art Unit: \_\_\_\_\_  
For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**17. CORRESPONDENCE ADDRESS**

☐ Customer Number or Bar Code Label \_\_\_\_\_ or ☒ Correspondence address below  
(Insert Customer No. or Attach bar code label here)

Name	Leonard A. Alkov, Esq.				
	Raytheon Company				
Address	P.O. Box 902 (E1/E150)				
City	El Segundo	State	CA	Zip Code	90245-0902
Country	U.S.A.	Telephone	310.647.2577	Fax	310.647.2616

Name (Print/Type)	Leonard A. Alkov	Registration No. (Attorney/Agent)	30,021
Signature	<i>Leonard A. Alkov</i>	Date	06/30/00

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

09/607604  
06/30/00

<h1 style="margin: 0;">FEE TRANSMITTAL</h1> <h2 style="margin: 0;">for FY 1999</h2> <p style="font-size: small; margin: 5px 0;">Patent fees are subject to annual revision. Small Entity payments <u>must</u> be supported by a small entity statement, otherwise large entity fees must be paid. See Forms PTO/SB/09-12.</p>		<p><i>Complete if Known</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Application Number</td><td></td></tr> <tr><td>Filing Date</td><td></td></tr> <tr><td>First Named Inventor</td><td><b>Allison</b></td></tr> <tr><td>Examiner Name</td><td></td></tr> <tr><td>Group / Art Unit</td><td></td></tr> <tr><td>Attorney Docket No.</td><td><b>PD-00W014</b></td></tr> </table>		Application Number		Filing Date		First Named Inventor	<b>Allison</b>	Examiner Name		Group / Art Unit		Attorney Docket No.	<b>PD-00W014</b>
Application Number															
Filing Date															
First Named Inventor	<b>Allison</b>														
Examiner Name															
Group / Art Unit															
Attorney Docket No.	<b>PD-00W014</b>														
TOTAL AMOUNT OF PAYMENT		(\$) <b>880.00</b>													

<h3 style="text-align: center; margin: 0;">METHOD OF PAYMENT (check one)</h3> <p>1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:</p> <p>Deposit Account Number <b>50-0616</b></p> <p>Deposit Account Name <b>Raytheon Company</b></p> <p><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17</p> <p>2. <input type="checkbox"/> Payment Enclosed:  <input type="checkbox"/> Check    <input type="checkbox"/> Money Order    <input type="checkbox"/> Other</p> <h3 style="text-align: center; margin: 10px 0;">FEE CALCULATION</h3> <div style="border: 1px solid black; padding: 5px;"> <h4>1. BASIC FILING FEE</h4> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>Large Entity Fee Code (\$)</th> <th>Small Entity Fee Code (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>101 760</td><td>201 380</td><td>Utility filing fee</td><td><b>690.00</b></td></tr> <tr><td>106 310</td><td>206 155</td><td>Design filing fee</td><td></td></tr> <tr><td>107 480</td><td>207 240</td><td>Plant filing fee</td><td></td></tr> <tr><td>108 760</td><td>208 380</td><td>Reissue filing fee</td><td></td></tr> <tr><td>114 150</td><td>214 75</td><td>Provisional filing fee</td><td></td></tr> <tr><td colspan="3" style="text-align: right;"><b>SUBTOTAL (1)</b></td><td><b>(\$ 690.00)</b></td></tr> </tbody> </table> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <h4>2. EXTRA CLAIM FEES</h4> <table style="width: 100%; font-size: x-small;"> <tr> <td>Total Claims</td> <td><b>24</b></td> <td>-20** =</td> <td><b>4</b></td> <td>X</td> <td>Fee from below</td> <td><b>18.00</b></td> <td>=</td> <td><b>72.00</b></td> </tr> <tr> <td>Independent Claims</td> <td><b>4</b></td> <td>-3** =</td> <td><b>1</b></td> <td>X</td> <td>Fee from below</td> <td><b>78.00</b></td> <td>=</td> <td><b>78.00</b></td> </tr> <tr> <td>Multiple Dependent</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p style="font-size: x-small;">**or number previously paid, if greater; For Reissues, see below</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small; margin-top: 5px;"> <thead> <tr> <th>Large Entity Fee Code (\$)</th> <th>Small Entity Fee Code (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>103 18</td><td>203 9</td><td>Claims in excess of 20</td><td></td></tr> <tr><td>102 78</td><td>202 39</td><td>Independent claims in excess of 3</td><td></td></tr> <tr><td>104 260</td><td>204 130</td><td>Multiple dependent claim, if not paid</td><td></td></tr> <tr><td>109 78</td><td>209 39</td><td>** Reissue independent claims over original patent</td><td></td></tr> <tr><td>110 18</td><td>210 9</td><td>** Reissue claims in excess of 20 and over original patent</td><td></td></tr> <tr><td colspan="3" style="text-align: right;"><b>SUBTOTAL (2)</b></td><td><b>(\$ 150.00)</b></td></tr> </tbody> </table> </div>	Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid	101 760	201 380	Utility filing fee	<b>690.00</b>	106 310	206 155	Design filing fee		107 480	207 240	Plant filing fee		108 760	208 380	Reissue filing fee		114 150	214 75	Provisional filing fee		<b>SUBTOTAL (1)</b>			<b>(\$ 690.00)</b>	Total Claims	<b>24</b>	-20** =	<b>4</b>	X	Fee from below	<b>18.00</b>	=	<b>72.00</b>	Independent Claims	<b>4</b>	-3** =	<b>1</b>	X	Fee from below	<b>78.00</b>	=	<b>78.00</b>	Multiple Dependent									Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid	103 18	203 9	Claims in excess of 20		102 78	202 39	Independent claims in excess of 3		104 260	204 130	Multiple dependent claim, if not paid		109 78	209 39	** Reissue independent claims over original patent		110 18	210 9	** Reissue claims in excess of 20 and over original patent		<b>SUBTOTAL (2)</b>			<b>(\$ 150.00)</b>	<h3 style="text-align: center; margin: 0;">FEE CALCULATION (continued)</h3> <h4>3. ADDITIONAL FEES</h4> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>Large Entity Fee Code (\$)</th> <th>Small Entity Fee Code (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>105 130</td><td>205 65</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>127 50</td><td>227 25</td><td>Surcharge - late provisional filing fee or cover sheet.</td><td></td></tr> <tr><td>139 130</td><td>139 130</td><td>Non-English specification</td><td></td></tr> <tr><td>147 2,520</td><td>147 2,520</td><td>For filing a request for reexamination</td><td></td></tr> <tr><td>112 920*</td><td>112 920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>113 1,840*</td><td>113 1,840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>115 110</td><td>215 55</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>116 380</td><td>216 190</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>117 870</td><td>217 435</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>118 1,360</td><td>218 680</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>128 1,850</td><td>228 925</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>119 300</td><td>219 150</td><td>Notice of Appeal</td><td></td></tr> <tr><td>120 300</td><td>220 150</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>121 260</td><td>221 130</td><td>Request for oral hearing</td><td></td></tr> <tr><td>138 1,510</td><td>138 1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>140 110</td><td>240 55</td><td>Petition to revive - unavoidable</td><td></td></tr> <tr><td>141 1,210</td><td>241 605</td><td>Petition to revive - unintentional</td><td></td></tr> <tr><td>142 1,210</td><td>242 605</td><td>Utility issue fee (or reissue)</td><td></td></tr> <tr><td>143 430</td><td>243 215</td><td>Design issue fee</td><td></td></tr> <tr><td>144 580</td><td>244 290</td><td>Plant issue fee</td><td></td></tr> <tr><td>122 130</td><td>122 130</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>123 50</td><td>123 50</td><td>Petitions related to provisional applications</td><td></td></tr> <tr><td>126 240</td><td>126 240</td><td>Submission of Information Disclosure Stmt</td><td></td></tr> <tr><td>581 40</td><td>581 40</td><td>Recording each patent assignment per property (times number of properties)</td><td><b>40.00</b></td></tr> <tr><td>146 760</td><td>246 380</td><td>Filing a submission after final rejection (37 CFR 1.129(a))</td><td></td></tr> <tr><td>149 760</td><td>249 380</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td></td></tr> <tr><td colspan="3">Other fee (specify) _____</td><td></td></tr> <tr><td colspan="3">Other fee (specify) _____</td><td></td></tr> <tr><td colspan="3" style="text-align: right;"><b>SUBTOTAL (3)</b></td><td><b>(\$ 40.00)</b></td></tr> </tbody> </table> <p style="font-size: x-small;">* Reduced by Basic Filing Fee Paid</p>	Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid	105 130	205 65	Surcharge - late filing fee or oath		127 50	227 25	Surcharge - late provisional filing fee or cover sheet.		139 130	139 130	Non-English specification		147 2,520	147 2,520	For filing a request for reexamination		112 920*	112 920*	Requesting publication of SIR prior to Examiner action		113 1,840*	113 1,840*	Requesting publication of SIR after Examiner action		115 110	215 55	Extension for reply within first month		116 380	216 190	Extension for reply within second month		117 870	217 435	Extension for reply within third month		118 1,360	218 680	Extension for reply within fourth month		128 1,850	228 925	Extension for reply within fifth month		119 300	219 150	Notice of Appeal		120 300	220 150	Filing a brief in support of an appeal		121 260	221 130	Request for oral hearing		138 1,510	138 1,510	Petition to institute a public use proceeding		140 110	240 55	Petition to revive - unavoidable		141 1,210	241 605	Petition to revive - unintentional		142 1,210	242 605	Utility issue fee (or reissue)		143 430	243 215	Design issue fee		144 580	244 290	Plant issue fee		122 130	122 130	Petitions to the Commissioner		123 50	123 50	Petitions related to provisional applications		126 240	126 240	Submission of Information Disclosure Stmt		581 40	581 40	Recording each patent assignment per property (times number of properties)	<b>40.00</b>	146 760	246 380	Filing a submission after final rejection (37 CFR 1.129(a))		149 760	249 380	For each additional invention to be examined (37 CFR 1.129(b))		Other fee (specify) _____				Other fee (specify) _____				<b>SUBTOTAL (3)</b>			<b>(\$ 40.00)</b>
Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid																																																																																																																																																																																																									
101 760	201 380	Utility filing fee	<b>690.00</b>																																																																																																																																																																																																									
106 310	206 155	Design filing fee																																																																																																																																																																																																										
107 480	207 240	Plant filing fee																																																																																																																																																																																																										
108 760	208 380	Reissue filing fee																																																																																																																																																																																																										
114 150	214 75	Provisional filing fee																																																																																																																																																																																																										
<b>SUBTOTAL (1)</b>			<b>(\$ 690.00)</b>																																																																																																																																																																																																									
Total Claims	<b>24</b>	-20** =	<b>4</b>	X	Fee from below	<b>18.00</b>	=	<b>72.00</b>																																																																																																																																																																																																				
Independent Claims	<b>4</b>	-3** =	<b>1</b>	X	Fee from below	<b>78.00</b>	=	<b>78.00</b>																																																																																																																																																																																																				
Multiple Dependent																																																																																																																																																																																																												
Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid																																																																																																																																																																																																									
103 18	203 9	Claims in excess of 20																																																																																																																																																																																																										
102 78	202 39	Independent claims in excess of 3																																																																																																																																																																																																										
104 260	204 130	Multiple dependent claim, if not paid																																																																																																																																																																																																										
109 78	209 39	** Reissue independent claims over original patent																																																																																																																																																																																																										
110 18	210 9	** Reissue claims in excess of 20 and over original patent																																																																																																																																																																																																										
<b>SUBTOTAL (2)</b>			<b>(\$ 150.00)</b>																																																																																																																																																																																																									
Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid																																																																																																																																																																																																									
105 130	205 65	Surcharge - late filing fee or oath																																																																																																																																																																																																										
127 50	227 25	Surcharge - late provisional filing fee or cover sheet.																																																																																																																																																																																																										
139 130	139 130	Non-English specification																																																																																																																																																																																																										
147 2,520	147 2,520	For filing a request for reexamination																																																																																																																																																																																																										
112 920*	112 920*	Requesting publication of SIR prior to Examiner action																																																																																																																																																																																																										
113 1,840*	113 1,840*	Requesting publication of SIR after Examiner action																																																																																																																																																																																																										
115 110	215 55	Extension for reply within first month																																																																																																																																																																																																										
116 380	216 190	Extension for reply within second month																																																																																																																																																																																																										
117 870	217 435	Extension for reply within third month																																																																																																																																																																																																										
118 1,360	218 680	Extension for reply within fourth month																																																																																																																																																																																																										
128 1,850	228 925	Extension for reply within fifth month																																																																																																																																																																																																										
119 300	219 150	Notice of Appeal																																																																																																																																																																																																										
120 300	220 150	Filing a brief in support of an appeal																																																																																																																																																																																																										
121 260	221 130	Request for oral hearing																																																																																																																																																																																																										
138 1,510	138 1,510	Petition to institute a public use proceeding																																																																																																																																																																																																										
140 110	240 55	Petition to revive - unavoidable																																																																																																																																																																																																										
141 1,210	241 605	Petition to revive - unintentional																																																																																																																																																																																																										
142 1,210	242 605	Utility issue fee (or reissue)																																																																																																																																																																																																										
143 430	243 215	Design issue fee																																																																																																																																																																																																										
144 580	244 290	Plant issue fee																																																																																																																																																																																																										
122 130	122 130	Petitions to the Commissioner																																																																																																																																																																																																										
123 50	123 50	Petitions related to provisional applications																																																																																																																																																																																																										
126 240	126 240	Submission of Information Disclosure Stmt																																																																																																																																																																																																										
581 40	581 40	Recording each patent assignment per property (times number of properties)	<b>40.00</b>																																																																																																																																																																																																									
146 760	246 380	Filing a submission after final rejection (37 CFR 1.129(a))																																																																																																																																																																																																										
149 760	249 380	For each additional invention to be examined (37 CFR 1.129(b))																																																																																																																																																																																																										
Other fee (specify) _____																																																																																																																																																																																																												
Other fee (specify) _____																																																																																																																																																																																																												
<b>SUBTOTAL (3)</b>			<b>(\$ 40.00)</b>																																																																																																																																																																																																									

SUBMITTED BY				Complete (if applicable)	
Typed or Printed Name		<b>Leonard A. Alkov</b>		Reg. Number	<b>30,021</b>
Signature		Date	<b>06/30/00</b>	Deposit Account User ID	<b>50-0616</b>